Shaped Casting of Copper (Cont.)

509

air pressure. The text includes a description of the preparation of the charge, the type of furnace and the fuel used. Care is taken to avoid any possible source of moisture as this leads to porosity. Various high-efficiency molds are illustrated and described. No personalities are mentioned. There are no references.

Mayer, V. V., Engineer. Ways of Improving the Quality of Castings from Br. OTs8-3-12-5 Bronze by Melting it in Klectric-arc Furnace of IME Type; Based on the Practice of the Lublin Casting and Mechanical Plant

126

This paper deals with the practice of melting bronzes in a standard arc furnace. The author discusses the problems reculiar to are furnaces and the various means of controlling the amount of hydrogen, which is the cause of gaseous porosity of metal. He stresses the importance of avoiding impurities which have an adverse effect on the castings, and procesds to describe the casting regimes used at the above-mentioned plant. Ho personalities are mentioned. There are no references.

Card 10/17

CIA-RDP86-00513R000928430008-7" APPROVED FOR RELEASE: 06/20/2000

Shaped Casting of Copper (Cont.)

509

Zaslavskiy, D. M., Engineer. Lead-Bronze Castings; Practice at the "Krasnyy Fakel" Plant

134

In this paper the author is concerned with lead-bronze castings of parts for pumps operating in fresh and salt water, and in particular with the preparation of molds and cores, especially cores made of cast-iron shavings, sand and a binding agent. These cores are said to reduce porosity in castings and improve their mechanical properties due to good thermal conductivity. The author goes on to discuss various riser systems and gating arrangements to insure good "feeding" of the casting. There are numerous diagrams and drawings showing different molds and cores for casting of lead bronze. Methods of repairing faulty castings, such as electric welding and thermal treatment, are discussed. No personalities are mentioned. There are no references.

Verner, Ye. E., Engineer. Use of Gating System With "Throttle" Arrangement in Bronze Casting; Practice at the Vladimirskiy Tractor Plant

147

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509

The Vladimirskiy Tractor Plant is reported to be using a casting method with a slag-catching arrangement to eliminate slag inclusions in bronze castings. The arrangement consists of a series of retaining chambers in the gating the arrangement consists of a series of retaining chambers in the gating system, where the slag is allowed to accumulate. This arrangement slows system, where the slag is allowed to accumulate. This arrangement slows down the metal flow, thus facilitating separation of slag from the molten metal. It is reported that this method was introduced in 1945 for casting of bushings and has helped to reduce defects due to slag inclusions from 3.5 to 0.4 per cent. No personalities are mentioned. There are 2 references, both Soviet.

Golomazov, N. A., Engineer Control of Scabbiness in Casting of Aluminum Eronze by Variable Rate of Metal Flow

The author states that the main difficulty in casting of aluminum bronze lies in the formation of oxide film and impurities during the pouring of metal into molds. He claims that this problem has been solved by using a slag chamber to trap the impurities and by varying the rate of metal flow. Pouring of metal is said to start at a slow rate to allow the impurities to collect in the slag chamber and the rate of metal flow is then increased to

Card 12/17

insure proper filling of the mold. In conclusion the author points out that an automatic timing device to control the rate of flow would be desirable.

No personalities are mentioned. There are no references.

Fomin, B. I. Engineer. Centrifugal Casting of Large Bronze Parts

This paper deals with centrifugal casting of large bronze parts weighing up to 3 tons. According to the author, these casting machines with vertical

and horizontal exes of rotation were built at the plant, utilizing verious standard components salvaged from other machines. The most frequent deficiencies in this method of casting are listed as lamination, cracks, distortions, and dimensional inaccuracy. There are sketches showing various molds used in this casting process. In conclusion the author urges special-

ized design and production of centrifugal casting machines as improvised machines do not give satisfactory performance. No personalities are men-

tioned. There are no references.

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153

CIA-RDP86-00513R000928430008-7" APPROVED FOR RELEASE: 06/20/2000

Soskin, L. M. and Tokarskiy, N. S., Engineers. Manufacture of Copper-Shaped Casting of Copper (Cont.) Alloy Parts by Compression Molding of Molten Metal (Plant Practice)

156

169

Compression molding of molten metal is described by the authors as the most efficient method for preparing nonferrous high integrity parts. Compression molding of molten metal is said to be carried out on a 750-ton press with either a vertical or a horizontal plunger. Parts produced by this method are reported to have mechanical properties as good as those produced by forging and to be more economical than coventional casting because no norging and to be more economical than coventional casting because no material is wasted for reformed blanks, or risers and gates. The various aspects of compression molding are described and illustrated and there are also numerous photomicrographs showing the uniformly fine-grained structure of compression-molded parts. The text briefly outlines the characteristic originate used, and an appendix lists safety rules to be observed in compression molding of molten metal. No personalities are mentioned. Thre are no references.

Baradan'yants, V. G., Engineer. Technology of Copper-alloy Casting in Plaster

This method of casting is said to be useful only when a small number of castings ere to be produced or when design changes are frequent but good dimensional accuracy with high surface quality is desirable. The author describes the accepted Card 14/17

CIA-RDP86-00513R000928430008-7" **APPROVED FOR RELEASE: 06/20/2000** 

509

procedure of copper-alloy casting in plaster-of-Paris molds, from the preparation of plaster and mold-making to the cleaning of the finished castings. There are numerous illustrations depicting the various stages of the process. Experiments conducted by VNIIzhelezobeton (All-Union State Scientific Research Institute for Reinforced-concrete Parts and Structures) and VIAM (All-Union Scientific Research Institute of Aviation Materials) are reported to have shown that the permeability of plaster molds to gases may be increased by steaming them prior to baking, which also results in coarser grain, less warping, and reduced shrinkage: No personalities are mentioned. There are no references.

Shklennik, Ya, I., Candidate of Technical Sciences Bronze Casting by the Lost-wax Process

175

The author regards this casting method as a very economical one, which gives high dimensional accuracy combined with good surface finish. The wax patterns for bushings are said to be made on a specially designed machine with a retractable metal core. Topics discussed include the various methods of multiple and cluster casting as well as some methods of pattern coating and the coating compound used. Soviet personalities mentioned include A. I. Cherkasov, Design Card 15/17

509

Engineer, V. A. Alekseyev, and P. S. Parshin, There is 1 Soviet reference.

Kolobnev, I. F., Candidate of Technical Sciences and Farbman, S. A., Engineer. Modern Submerged-Resistor Furnaces and Special Features of Copper Alloy Melting Process

The authors claim that the most efficient and modern way of melting copper and copper alloys is by means of a submerged-resistor furnace with closed channels. Advantages listed are simple construction and equipment, small size, high productivity, and low power consumption. Disadvantages are low temperature of slag and high rate of wear of channel lining. The authors stress the need for increased size and higher output of these furnaces and mention as an example a new furnace in Birkenhead, England, with a 15-ton capacity. Some submerged-resistor furnaces are reported to be used in pressure casting. The text contains a full description of operating conditions and some maintenance problems. No personalities are mentioned. There are no feferences.

Card 16/17

509

Vagin, V. V., Engineer.

Melting and Distribution Submerged-resistor Furnace

203

The author notes that two furnaces are used, one for melting and one for distributing, to avoid interruptions in pressure casting or permanent-mold casting. In order to streamline the casting process a new submerged-resistor furnace was developed by I. I. Teslinov, and put into operation at the Elektrovozostroitel'nyy zavod imeni S. M. Budennyy (Electric Locomotive Plant imeni S. M. Budenny) in August 1954. This furnace is portable and can operate where 220-volt current is available. It acts as both melting and distributing furnace and supplies an interrupted flow of molten metal for casting machines. There are no references.

AVAILABLE: Library of Congress

GO/gmp 9-30-58

Card 17/17

## LAKISOVA, O.V. (Simferopol!)

Significance of hexonium in the pathogenetic treatment of gastric and duodenal ulcer. Vrach. delo no. 3:18-22 Mr '61. (MIRA 14:4)

1. Kafedra diagnostiki vnutrennikh bolezney (zav. - prof. A.B. Shakhnazarov) Krymskogo meditsinskogo instituta.

(PEPTIC ULCER) (AMMONIUM COMPOUNDS)

SHAKHNAZAROV, M. N.; LAKISOVA, O. V.; GARBER, M. M. (Simferopol')

Results of the clinical study of the new Soviet preparation, etafen, for the prevention and treatment of stenocardia. Vrach. delo no.3:143-145 Mr '62. (MIRA 15:7)

1. Kafedra diagnostiki vnutrennikh bolezney (zav. - prof. A. B. Shakhnazarov) i gospital'noy terapii (zav. - prof. P. A. Tepper) lechebnogo fakul'teta Krymskogo meditsinskogo instituta.

(VASODILATORS) (ANGINA PECTORIS)

TEPPER, P.A., prof.; SHAKHNAZAROV, A.B., prof.; KAMENSKIY, A.K., kand.med. nauk; LAKISOVA, 0.V.

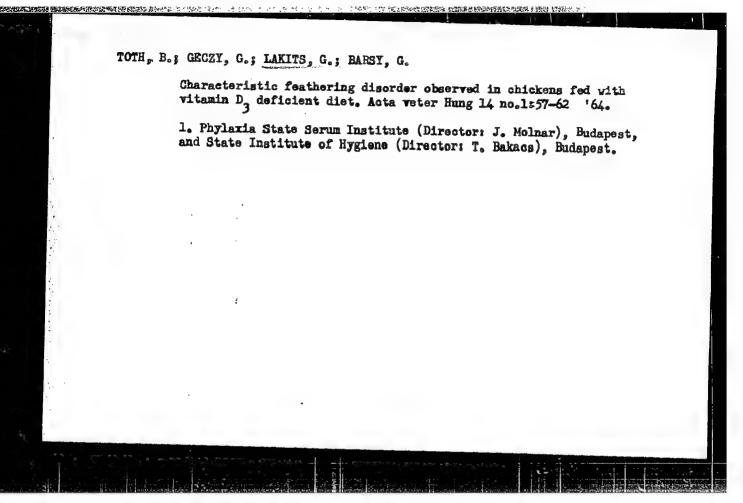
Hexonium in the treatment of peptic ulcer. Terap.arkh. 33 nc. 8: 15-22 '61. (MIRA 15:1)

KATONA, Laszlo, dr.; LAKITS, Elemer, dr.; PALOS, Ferenc, dr.

On the problem of primary resistance. Tuberkulozis 17 no.4:111-114

Ap '64.

1. Szamuely Tibor tbc-gyogyintezet (Budapest) kozlemenye.



IAKIZA, Aleksandr Yakovlevich; KLIMANOV, A.D., otvetstvennyy red.; RYKOV, N.A., red.izd-va: NADEINSKAYA, A.A., tekhn.red.; IL'INSKAYA, G.M., tekhn.red.

> [Safety engineering and fire prevention in coal concentration and briquetting plants] Tekhnika bezopasnosti i protivopozharnaia tekhnika na ugleobogatitel'nykh i briketnykh fabrikakh. Moskva, (MIRA 11:5) Ugletekhizdat, 1957. 145 p.
> (Coal preparation-Safety measures)

(Fire prevention)

GOL'SHTEYN, I.M., professor; GORYAINOVA, Z.P.; LAKIZA, P.I.

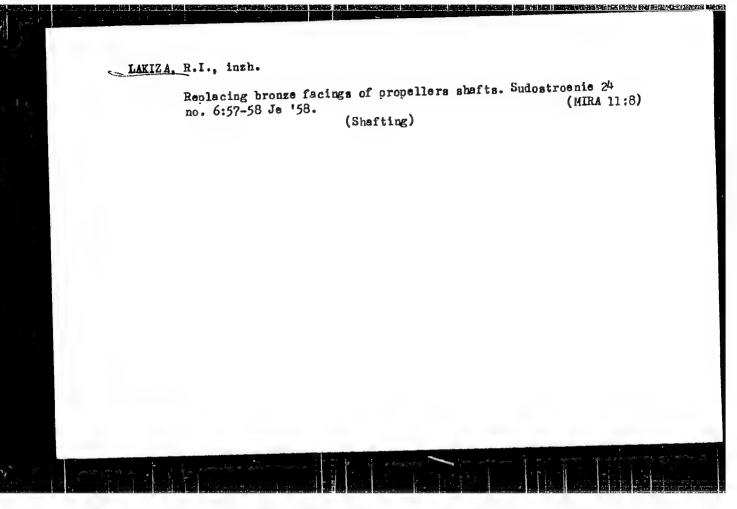
Over-all study of dysentery in Dnepropetrovsk. Gig. 1 sen. 22 no.3:
50-52 Mr '57.

1. Is kafedry epidemiologii i kafedry kommunal'noy gigiyeny
Dnepropetrovskogo meditsinskogo instituta.
(DYSEPTERY, BACILIARY, epidemiol.
in Russis, role of sanitary cond.)

CAKIZA, P.I., assistent

Role of various environmental factors in the spread of helminthiasis in children's institutions. Gig. i san. 23 no.5:72-75 My '58 (MRA 11:6)

1. Iz kefedry epidemiologii, kafedry obshchey gigiyeny, kafedry kommunal'noy gigiyeny pnepropetrovskogo meditainskogo instituta. (HEIMINTH INPECTIONS, transm. environmental factors in children's institutions (Rus))



LAKIZA, R. I., Cand of Bio Sci -- (diss) "The influence of factors of internal media on therelationship of male and female flowers of the castor plant." Knar'kov, 1957, 16 pp (Khar'kov Agricultural Institute im V. V. Dokuchayev), (KL, 35-57, 106)

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

: Ref Zhur - Biol., No 7, 1958, 29927 Abs Jour

Lakiza, R.I. Author

The Novocherkassk Technical Zoological and Veterinary Inst

Institute.

: The Effect of Damp Soil on the Formation of the Generati-Title

ve Organs in the Castor Plant.

Tr. Novocherkasskogo zootekhn.-vet. in-ta, 1957, vyp. 10, Orig Pub

141-144.

: Vegetative trials with Kruglik 5 variety castor plant were Abstract

made on moist soil at 40, 60 and 80% of full moisture capacity during the whole vegetational period, as well as at these moisture levels in different phases of development. It was determined that the more rapid differentiation of the growth points occurred with abundant moisture

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28

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing.

Abs Jaur : Ref Zhur - Biol., No 7, 1958, 29927

(80%), whereas inadequate moisture (40%) retards this. The formation of flowers is delayed with surplus moisture in the soil, leading to the later opening of them. The number of blossoms on the bush increased with added moisture. The humidification of the soil during the budding and its fruit-formation were especially mignificant.

M-5

Card 2/2

## IAKIZA R.I.

Effect of environmental factors on the manifestation of sex characters Effect of environmental factors on the manifestation of 159. in the castor-oil plant. Fiziol. rast. 6 no.4:488-490 Jl-Ag 159. (MIRA 12:10)

l. Kharkov Agricultural Institute.
(Castor-oil plant) (Plants, Sex in)

CIA-RDP86-00513R000928430008-7" APPROVED FOR RELEASE: 06/20/2000

LAKIZA, R.I.; PEVZNER, N.I.; UGNICH, L.M.

Reparing main and auxiliary diesel generators of whalers by replacing parts. Sudostroenie no.8:58-61 kg 165.

(MIRA 18:9)

S/125/60/000/011/007/016 A161/A133

1.2300 als 1573

AUTHORS: Dudko, D.A., Lakiza, S.P.

TITLE: New welding possibilities with high-temperature arcs compressed by

a gas stream

PERIODICAL: Avtomaticheskaya svarka, no. 11, 1960, 39-48

TEXT: The method is new, and the equipment for welding with compressed arc is just appearing in the USSR and abroad. The arc temperature may be raised to 30,000°C, and such an arc is already being used for cutting. VNIIAVTOGEN has developed and is producing an YAP-2-58 (UDR-2-58) cutter for metal, cuting with a so-called penetrating arc. Its burner nozzle is free of electric current, and the workpiece is the anode of the system. The Institut metallurgii im. Baykova (Institute of Metallurgy im. Baykov) has produced special arc heeds MMET-105 (IMET-105) and MMET-106 (IMET-106) with discharge inside a protecting stream of argon or another gas shield between a tungsten electrode and a water cooled nozzle (Ref.2, "Svarochnoye proizvodstvo" No.9,

Card 1/6

S/125/60/000/011/007/016 A161/A133

New welding possibilities ...

1959, Kulagin and Nikolayev). The Electric Welding Institute im. Ye. O. Paton has experimented with different burners and found that those are to be preferred where the workpiece forms the anode. The burner design is shown (Fig.2); it is suitable for semi-automatic and automatic welding and a wide range of voltage and current (30-450 amp and 20-80 volt). An automatic unit is used on a TC -17M (TS-17m) "welding tractor". The process is excited by a high-frequency discharge from an oscillator and an auxiliary 20-30 amp arc. Various shielding media have been tried for different metal compositions (árgon, helium, nitrogen, hydrogen, natural gas, liquefied natural gas, water steam, alcohol vapors, water gas, carbon dioxide) and all proved applicable. Very low fusion depth was obtained with nitrogen for shielding in welding with copper wire on killed steel (Fig. 5), and slightly deeper when the CB -OSA (Sv-08A) wire was fused on killed CT.3 (St.3) steel in carbon dioxide (Fig.6) Better mechanical properties appeard in weld metal produced with CB -08F2A (Sv-08G2SA) wire in carbon dioxide. Welding with two passes using 1.2 mm filler wire for the second pass in argon on 30 XTCA (30KhGSA) steel resulted in quality seams and good weld metal. A particular feature of the process is that a wide reinforcement bead can be produced at very shallow fusion of the base metal. Splatter was completely absent in argon, carbon dioxide and wa-Card 2/6

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928430008-7"

1

New welding possibilities...

S/125/60/000/011/007/016 A161/A133

ter steam. The weld surface was extraordinarily smooth. The arc length need not be accurately maintained as in common argon arc welding, and the arc stability was not affected by the travel speed of 7200 m/hr. The compressed arc may be given any desired shape - round, oval, rectangular or other by using different nozzle shapes or magnetic fields. A flat fan-shaped arc has been formed with magnetic field of 50 cycles (Fig.11,a); the arc may be rotated by a travelling magnetic field (Fig.11,b) forming a cone (handy for welding on pipes). In submerged arc processes the gas did not blow away the flux. The consumption of shielding gas is very low, between 0.2 and 5 liter/min. There are 12 figures and 4 Soviet references.

ASSOCIATION:

Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.Ye. O.Patona AN USSR ("Order of the Red Banner of Labor" Electric Welding Institute im.Ye.O.Paton of the Academy of Sciences of the Ukrainskaya SSR)

SUBMITTED: July 6, 1960

Card 3/6

\$/125/60/000/06/02/007

18.7200

AUTHORS:

Dudko, D.A., and Lakiza, S.P.

TITLE:

Automatic Welding of Annular Seams with Very Small Diameter by Cone

Arc

PERIODICAL:

Avtomaticheskaya svarka, 1960, No. 6, pp 42 - 45

TEXT: No special automatics existing for shielded arc welding [Ref. 1] of small annular work pieces use carbon or tungsten electrodes, nor could thin welding rods [Ref. 2] be used for the special case described, in which work piece shown in Figure 1 had to be welded. The diameter was less than 5 mm, with wall of stainless steel thinner than 0.5 mm. The joint had to be mechanically strong and vacuum-tight; the welding metal was not to protrude more than 0.05 mm to the outside, and the central point of the work piece was to be heated not over 300°C in the welding process. After failure with existing equipment, it was decided to use the "cone arc" method which was previously used for the first time for welding small-diameter tubes of magnesium allcy to grids [Ref. 3], i.e. by an inclined arc being rotated at high speed through the effect of a magnetic field. The optimum process parameters were found by trial-and-error: "BT-7" (VT-7) tungsten electrode of 1.6 mm diameter; argon for shielding, in quantity of 10

Card 1/2

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928430008-7"

\$/125/60/000/06/02/007

Automatic Welding of Annular Seams with Very Small Diameter by Cone Arc

liter/min; current of 45 amp and 10 volt; arc burning duration between 0.2 and 0.3 sec; 0.5 mm gap between the edges of the work piece and the electrode tip; 25 mm free electrode end length. Solid and smooth welds were obtained (Photo, Figure 3). No marked difference of microstructure between the base and the welding metal was observed (Photo, Figure 4). Welding of larger work pieces, of 15 mm diameter and more, had also been tried with a solid and a tubular electrode, as shown in diagram (Figure 5), but only stronger current (of over 150 amp) gave a stable process, which is too high for welding thin metal. It is supposed that common commercial tungsten used for the electrode was the cause of the unstable welding process with weak current. Water cobled copper electrodes gave analogous results. It is concluded that the "cone arc" method (i.e. by an arc rotating in a magnetic field) is worth further study on development of machine welding technology for connecting tubes with tube grids, or similar work. There are 5 figures and 5 references, 4 of which are Soviet and 1 English.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.Ye.O.

Fatona AN USSR (Red Banner of Labor Electric Welding Institute imeni Ye.O.Paton AS UkrSSR)

SUBMITTED:

February 4, 1960

Card 2/2

s/125/61/000/007/010/03 DO40/D113

2300

AUTHORS:

Dudko, D.A. and Lakiza, S.P.

Welding 1Kh18N9T thin sheet steel by the pinched arc method

TITLE:

PERIODICAL:

Avtomaticheskaya svarka, no. 7, 1961, 86-87

TEXT: Argon arc welding with a tungsten electrode is at the moment the most universal method of welding high-alloy sheet steel, but argon is scarce and expensive. According to available data, 3-4 liters argon per minute are required for butt welding 1 mm thick 1X18H9T (1Kh18N9T) steel without filler metal. The Institut elektrosvarki im. Ye.O. Patona (Electric Welding Institute im. Ye.O.Paton) has developed a new automatic pinched arc welding process which requires only 0.3 to about 0.5 liters of argon per min in welding 1Kh18N9T sheet steel. The "A-730" welding torch designed at the Institute can weld 1, 1.5 and 2 mm thick sheets. Welding is conducted using d.c. of direct polarity. The high quality of welds is snown in two photographs of a seam in a 1 mm sheet welded without filler metal and support, with 65 amp, 22 volts and 40 m/hr welding speed. The welded joints have the same strength as the base metal, they do not break when bent at an angle of 1800 and have Card 1/2

APPROVED FOR RELEASE: 06/20/2000

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Welding IKhl8N9T thin sheet .....

S/125/61/000/007/010/013 D040/D113

sufficient resistance against intercrystalline corrosion. The arc length can be more widely varied than is possible in conventional argon arc welding. There are 2 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet bloc. The reference to the English-language publications reads as follows: J.C. Borland, W.G. Hull, Manual Open Air Welding of Reactive Metals, "British Welding Journal", p 427-434, No. 9, 1958.

Card 2/2

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S/125/62/000/001/010/011 D036/D113

AUTHOR:

Lakiza, S.P.

TITLE:

Which types of welds can be made with a plasma arc, and what

equipment is required for this purpose?

PERIODICAL:

Avtomaticheskaya svarka, no. 1, 1962, 90

TEXT: The above question was put to the author by some welders. The author's reply is as follows: Use of the plasma arc at the present time is expedient for the automatic welding of thin sheets of metals and alloys. Structures from 0.8.-1.5 mm thick metal are butt-welded, flange-welded or spot-welded without using filler material. Metal, 2-3 mm thick is butt-welded in one pass with filler material, or joined by a double-sided weld without filler material. The plasma-arc technology is economical. Argon consumption during the welding of stainless steel is 0.3-0.5 l/min. The plasma arc can also be used for surfacing by melting the material deposited on the area to be surfaced. For plasma-arc welding and surfacing, the Institut elektrosvarki (Electric Welding Institute) developed a special A -759 (A-759)-type torch which may be used with any automatic argon-arc welder for tungsten welding. In the

Card 1/2

Which types of welds ...

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D0:5/D113

Which types of welds ...

first quarter of 1962, the Institute will produce a trial batch of A-759

first quarter of 1962, the Institute will produce a trial batch of A-759

first quarter of 1962, the Institute will produce a trial batch of A-759

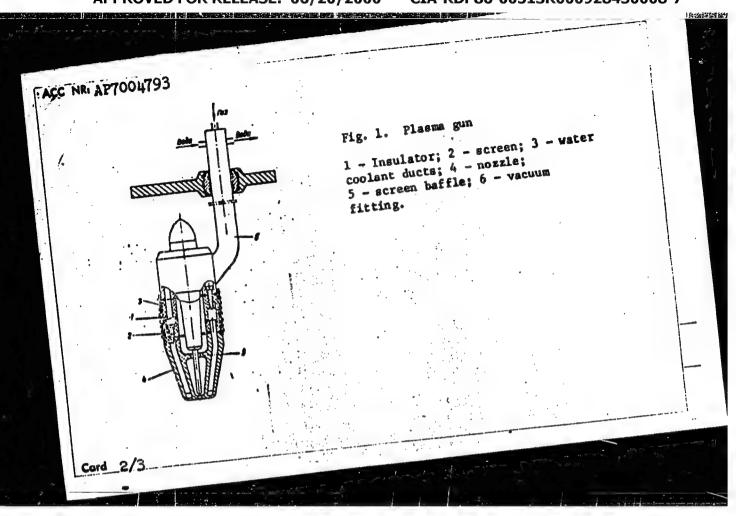
first quarter of 1962, the Institute will produce a tilal state of the supplied to torches with the auxiliary electric equipment. They will be supplied to organizations upon request. [Abstracter's note: Complete translation].

Card 2/2

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W.65	5	4/
AUTHOR: Dudko, D. A.; Laki:	a, B. F. 446	170608
www.w. Wether of creating	B plasma arc in vacuum.	IBB 49, NO. TIZOU
SOURCE: Byulleten' isobret	eniv i tovarnykh znakov, no.	13, 1965, 103
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TOPIC TAGS: plasma arc, ya	cuum plasma arc, plasma arc	and the state of the same
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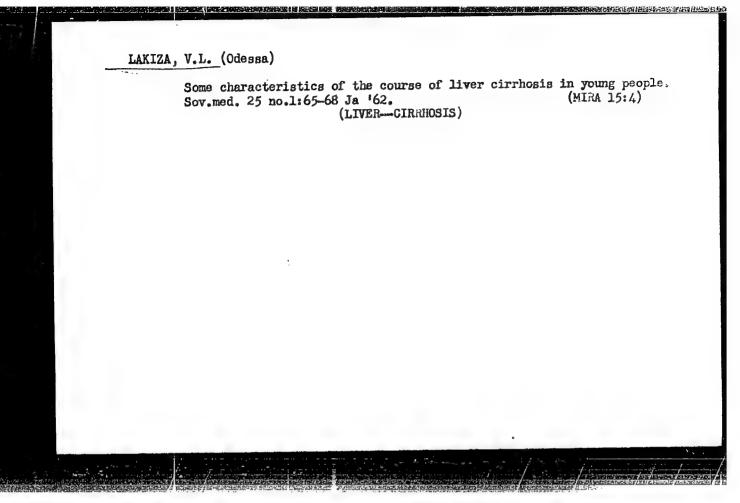
UR/0413/66/000/024/0103/0103 SOURCE CODE: AP7002998 (A,N) ACC NRI Dudko, D.A.; Lakiza, S.P.; Azbukin, V.D. INVENTOR: none ORG: TITLE: Plasma torch. Class 49, No. 189669 [Electric Welding Institute im. E.O. Paton (Institut elektorsvarki)] SOURCE: Izobreteniya, promyshlennyye obraztsy, towarnyye znaki, no. 24, 1966, 103 TOPIC TAGS: plasma, plasma treatment, plasma torch SPRAVIAS PLASMA DEVICE. .This Author Certificate introduces a plasma torch for treatment of materials. ABSTRACT: The torch consists of a housing containing a cathode and a nozzle-anode, plasma jet. To provide and an electromagnetic system for controlling the uniform heating of the treated article, the cathode is made in the shape of a ring mounted in the housing, and the nozzle is made out of two concentric sleeves whose cross section corresponds to that of the treated article. [TD] 13, 20 / SUBM DATE: 22Mar65/ ATD PRESS: 5115 SUB CODE: 621,791,755.034 UDC:

ACC NR. AP7004793 INVENTOR: Dudko ORG: none TITLE: Plasma & Electric Welding SOURCE: Izobre 1967, 128 TOPIC TAGS: pl	gun for metals. g Institute, in	class 49, No. Ye. O. Pato	yy, A. V. No. 190186 [and (Institute stay), tovarn	yye znaki, no.	he )
ABSTRACT:	nor Certificate in	troduces a plas	ma gun for tre	ating metals in	es
vacuum Wan	ith a low pressure g, a cathode subst	sembly, and a n	ozzle, insulat	or, and vacuum fi	tting.
vacuum W a housin	ith a low pressure g, a cathode subas	sembly, and a n	ozzle, insulat	or, and vacuum fi	tting.



APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928430008-7"

To prolong the service life and simplify the operation of the gun, the insulator is equipped with an exchangeable protective screen and is water insulator is equipped with an exchangeable refractory-metal insert. cooled. The nozzle has a baffle and an exchangeable refractory-metal insert. The vacuum fitting is mounted eccentrically to the gun body. Orig. [ND]					
has: 1 figure.	•	•			
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17(10)

SOV/177-58-4-5/32

AUTHOR:

Lakiza, V.L., Colonel of the Medical Corps

TITLE:

Diagnosis and Clinical Treatment of Ulceration in Young Persons (O diagnostike i klinike yazvennoy bolezni u

lits molodogo vozrasta)

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 4, pp 17-20 (USSR)

FAIT TO THE PROPERTY AND A STREET STREET TO

ABSTRACT:

The article is based on observations of 1,454 soldiers suffering from ulceration (duodenal ulcer in 84.8% and gastric ulcer in 15.2% of the cases). The author thinks that X-ray examination of the gastro-intestinal tract is one of the most important factors in the diagnosis of uncomplicated ulceration in young persons. It has been proved that ulceration develops from functional stomach disorder, called by M.P. Konchalovskiy "Prelude to the Ulcer". The classical triad of clinical symptoms such as pain, emesis and hemorrhage were observed only in complicated ulceration. During the summer period,

Card 1/3

SOV/177-58-4-5/32

Diagnosis and Clinical Treatment of Ulceration in Young Persons

only a few patients were hospitalized. From September to May the numberrose \_ G.I. Burchinskiy concluded that the seasonal prevalence of the exacerbation of disease reflects in a certain degree on the irregularity of hospitalization in the course of a year. The author indicates that nearly all patients suffering from perforated ulcer did not consult a physician before their hospitalization. Only a few patients suffered from pain in the abdomen and dyspeptic disturbances. This fact points to the presence of so-called "dumb ulcers" with a latent course. The author sums up his observations by stating that the clinical picture of ulceration in young patients is to be determined by stage and form of the disease, morphological changes on the part of the stomach and the duodenum. Early diagnosis of ulceration in young patients is rather difficult. It must be based on the whole complex of clinical symptoms,

Card 2/3

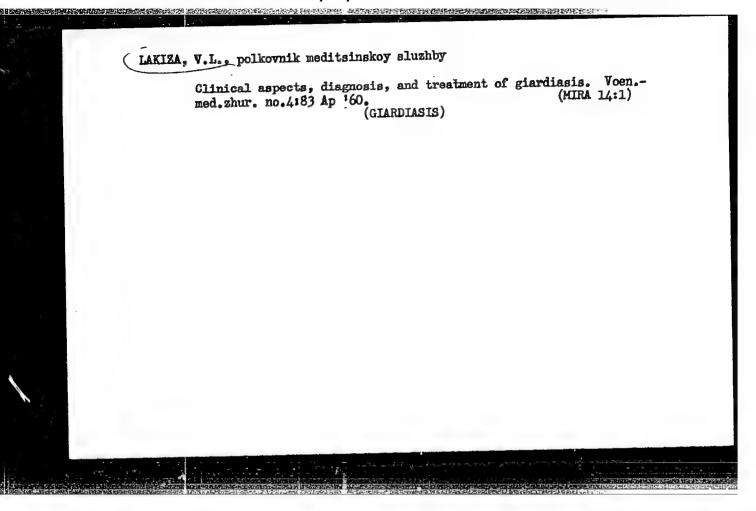
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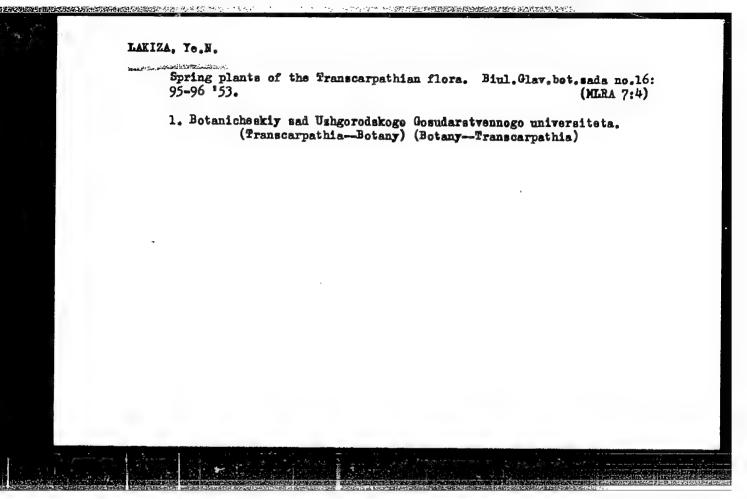
Diagnosis and Clinical Treatment of Ulceration in Young Persons

on a carefully compiled physician's report with an analysis of eventual etiological factors, as well as on the data of X-ray and laboratory examinations. There is 1 table and 2 Soviet references.

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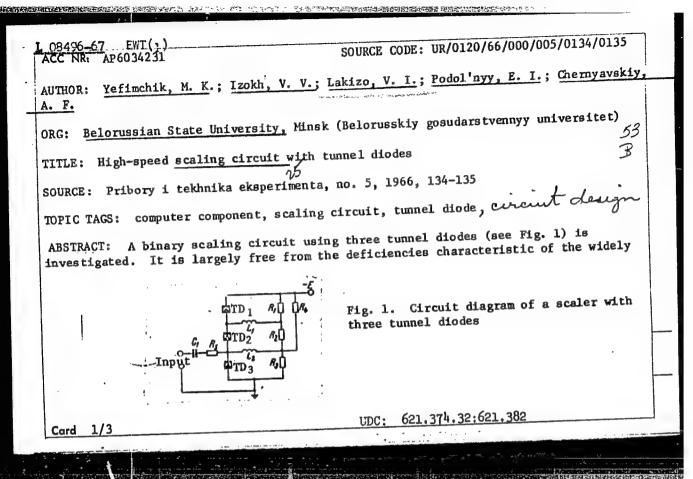




JANCSO, Tibor, okleveles vegyeszmernok; LAKLIA, Tibor, okleveles vegyeszmernok; PETO, Edit, dr., okleveles kozgazdasz; SCHILL, Ottmar, okleveles gepeszmernok; SIPOTZ, Istvan, dr., okleveles kozgazdasz; TURKOVICS, Gyorgy, okleveles banyamernok

General economic aspects of transporting crude oils, oil products and natural gas through pipelines. Bany lap. 97 no.9:626-634 S '64.

1. Petroleum and Gas Industry Planning Enterprise, Budapest.



**计可以包含的数据编码的数据是数据的数据图图的系统中的工作** 

L 08496-67 ACC NR: AP6034231

used bridge-type scaling circuit with two tunnel diodes, which is sensitive to pulses of both polarities and has a tendency to shift the working point of the tunnel diode characteristic. The  $\mathrm{TD}_1$  and  $\mathrm{TD}_2$  diodes shown in Fig. 1, together with their resistances  $\mathrm{R}_1$  and  $\mathrm{R}_2$  and the inductance  $\mathrm{L}_1$ , form a flip-flop circuit. The third tunnel diode  $\mathrm{TD}_3$ , with its resistance  $\mathrm{R}_3$  and inductance  $\mathrm{L}_2$ , forms a monostable multivibrator. Fig. 2. represents the volt-ampere characteristics of the whole system. Curve I

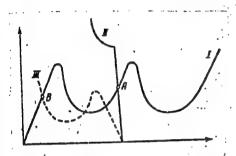


Fig. 2. Selection of operating conditions of the scaler shown in Fig. 1

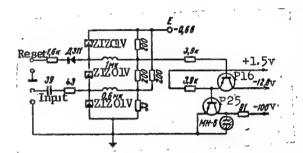


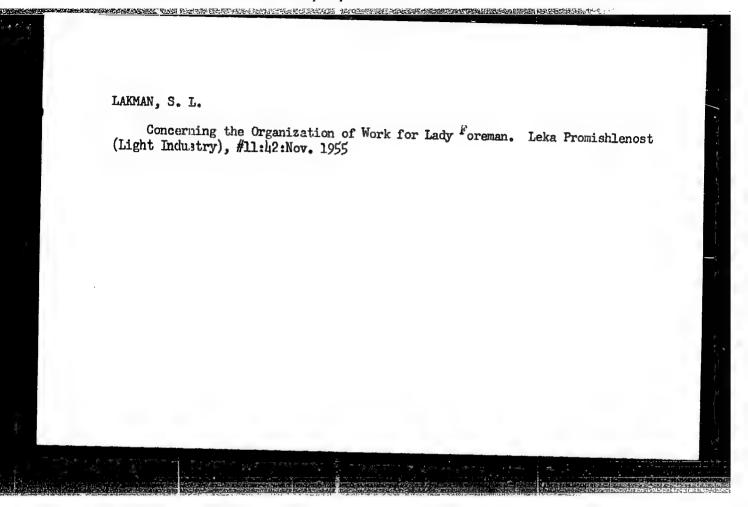
Fig. 3. Circuit diagram of a binary scaler with a neon lamp indicator

Card 2/3

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indicates the static volt-ampere characteristics of the flip-flop; curve II, the static load characteristic; and curve III, the dynamic load characteristic. R, regulates circuit sensitivity. It can be seen from Fig. 2 that the circuit is sensitive to pulses of positive polarity only as its d-c load characteristic is sufficiently steep, which results in a considerable extension of the dynamic range of this circuit. There is no need for the rigid power source stabilization necessary in the two-diode system. Fig. 3 represents a practical circuit diagram of a scaler equipped with three ZIZOLV tunnel diodes. This scaler operates stably even with no parameter identity of TD<sub>1</sub> and TD<sub>2</sub>, with the input signal frequency up to 100 Mc, and with supply voltage fluctuations of ±25%. Orig. art. has: 6 figures.

SUB CODE: 09/ SUBM DATE: 11Sep65/ ORIG REF: 001/ OTH REF: 001/ ATD PRESS: 5103



н. HUNGARY/Chemical Technology - Chemical Products and Their Applications - Perfumes, Essential Oils and Cosmetics.

: Ref Zhur - Khimiya, No 11, 1958, 37351 Abs Jour

: Lakner, A. Author

Some Problems Connected with the Manufacturing of Inst Title Perfumes in Hungary.

: Olaj, Szappan, Kozmetika, 1955, September-October, Orig Pub

11-12.

: No abstract. Abstract

Card 1/1

# LAKNER, Ido

Treatment of burns at the hospital during 1950-54 with special reference to prevention of infection of the injured tissue.Zdrav. vest., Ljubljana 24 no.3:93-95 1955.

1. Kirurgicni oddelek bolmisnice v Celju - predstojnik prim. Dr. Zv. Sustersic.

(BURNS, therapy, hosp. report)

G/004/60/007/008/003/005 15.8000 82349 B015/B055 AUTHORS: Dobó, J., Somogyi, A., Lakner, E. TITLE: Preparation of Colorable Polytetrafluoro Ethylene (PTFE) Using Radiation-initiated Graft Polymerization Plaste und Kautschuk, 1960, Vol. 7, No. 8, pp. 393 - 395 PERIODICAL: TEXT: The grafting of styrene on PTFE (Teflon) has already been investigated by Chapiro (Ref. 1). Restaino (Refs. 2,3) investigated the grafting of other polymers on the same material. For this, PTFE was dipped into the monomer, the polymer and the monomer then being exposed simultaneously to high-energy radiation. Sinitsina et al. (Ref. 4) applied a different method. In the present paper, the first-mentioned method was used. The authors used a 220 kv, 15 ma X-ray apparatus, or in some cases, a 60 curie Co 60 source. Styrene, methyl methacrylate, vinyl acetate, and vinyl pyridine were used as monomers. Irradiation was carried out in the absence of oxygen. Vinyl acetate was grafted most easily. Grafting on PTFE is accompanied by autoacceleration, i.e. the reaction rate increases with

Preparation of Colorable Polytetrafluoro G/004/60/6 Ethylene (PTFE) Using Radiation-initiated Graft B015/B055 Polymerization 823h9

G/004/60/007/008/003/005 B015/B055 823h9

time (Fig. 1). In general, acetate dyes were found to be most suitable for coloring graft polymers (Table 1, Fig. 3), the choice of dye, however, depending on the type of grafted polymer (Table 2, coloring conditions for vinyl acetate copolymers). Investigation data show that well colorable PTFE sheeting can be prepared by radiation-initiated grafting, without appreciable damage to the mechanical properties of the sheeting, provided the grafted polymer coating is thin (Tables 3, 4). The color gives an idea of the distribution of colorable grafted components in the sheeting. At room temperature and medium intensities, grafting on PTFE is a surface grafting. There are 3 figures, 4 tables, and 6 references: 1 Soviet, 3 US, 1 British, and 1 French.

ASSOCIATION: Forschungsinstitut der Organisch-chemischen und Kunststoffindustrie, Budapest (Ungarn) (Research Institute of the
Organic Chemical- and Plastics Industries, Budapest
(Hungary))

Card 2/2

H/005/61/000/002/002/002 B124/B203

AUTHORS:

Dobó, János, Somogyi, Ágnes, and Lakner, Endre

TITLE:

Production of dye-absorbent Teflon by radiation-chemical

graft copolymerization

PERIODICAL:

Magyar Kémiai Folyóirat, no. 2, 1961, 85-90

TEXT: The grafting of styrene on Teflon was studied by A. Chapiro (Ref. 1: J. Polymer Sci., 34, 481, 1959), and that of other monomers on Teflon by A. J. Restaino (Ref. 2: Harwood: Effects of Radiation on Materials, Reinhold, New York, 1958, Chapt. XI; Ref. 3: A. J. Restaino and W. N. Reed: J. Pol. Sci., 36, 499, 1959); in the latter case, graft copolymerization and homopolymerization occurred at the same time. Ts. A. Sinitsyna, I. D. Tsvetkov, G. S. Bagdasaryan, and V. Voyevodskiy (Ref. 4: Dokl. Akad. Nauk, 129, 631, 1959) were the first to irradiate Teflon and immerse it into the monomer; thus, long-lived free radicals were formed on Teflon, and graft copolymerization of the monomer was initiated. A communication by the Radiation Application Co. (Ref. 5: Chem. Eng. News: 37/5, 44, 1959) mentions a procedure of radiation-chemical graft copolymerization

Card 1/12

H/005/61/000/002/002/002 B124/B203

Production of dye-absorbent Teflon by ...

for the production of dye-absorbent Teflon without describing it in detail. Polymer and monomer were simultaneously irradiated by a 220-kv and 15-ma X-ray apparatus, in some cases by a Co<sup>60</sup> radiation gun with an activity of 60 curie, with exclusion of oxygen. Results obtained are described in Ref. 6 (J. Dob6, A. Somogyi: Journ. chim. Phys., 56, 863, 1959). Monomers used were styrene, methyl methacrylate (MMA), vinyl acetate (VAC), and vinyl pyridine (VP). To attain a given degree of grafting, the radiation dose required rises in the order: VAC, MMA, VP, styrene (Fig. 1). VP copolymers can be best stained with acid and acetate dyes, MMA copolymers worse, and sulfonated styrene copolymers worst. Thus, the use of VAC is most convenient. Grafting on Teflon is connected with autoacceleration increasing with time (Fig. 2). The initial grafting rate is approximately proportional to the square root of the radiation intensity; grafting is accelerated by a temperature increase. Table 1 gives a survey of the dyeing of grafted copolymers; the data were obtained in a survey of the dyerng of grafted copolymers; the data were obtained in a dyestuff bath within 1 hr and at 100°C, a 2% aqueous dyestuff solution, a 1% emulsifier solution, and benzene being used as carriers. Under these conditions, ungrafted foils were not stained at all. Slightly (below 2%) grafted foils were stained irregularly due to irregular grafting. Uniform,

Card 2/12

H/005/61/000/002/002/002 B124/B203

Production of dye-absorbent Teflon by ...

well-dyed foils were obtained by a 6-10% grafting with VAC, for example (Table 2). The penetration depth of dyes into the polymer foil is independent of diffusion, and represents the distribution of grafted polymer in the foil. The mechanical properties of Teflon deteriorate only slightly under the action of radiation (Table 3). The thermal stability of the dye depends on the grafted polymer and the dyestuff quality; with certain combinations, thermal stability is very high (Table 4). Grafting of Teflon proceeds at room temperature and medium intensities in the surface layer. János Mikes is thanked for assisting in photographing the microscopic sections. There are 3 figures, 4 tables, and 6 references: 2 Soviet-bloc and 4 non-Soviet-bloc. The three references to English-language publications read as follows: A. J. Restaino in "Harwood": Effects of Radiation on Materials, Reinhold New York, 1958, Chapt. XI.; A. J. Restaino and W. E. Reed: J. Pol. Sci., 36, 499, 1959; Chem. Eng. News: 37/5, 44, 1059.

ASSOCIATION:

Budapest, Szerves Vegyipari és Müanyagipari Kutató Intézet (Budapest Research Institute of the Organic Chemical Industry and Plastics Industry)

Card 3/12

DOBO, Janos; SOMOGYI, Agnes; LAFMER, Endre

Synthesis of colorable teflon by means of radiation copolimerization. Magy kem folyoir 67 no.2:85-90 F '62.

1. Szerves Vegyipari es Muanyagipari Kutato Intezet, Budapest.

LAKNER, K.

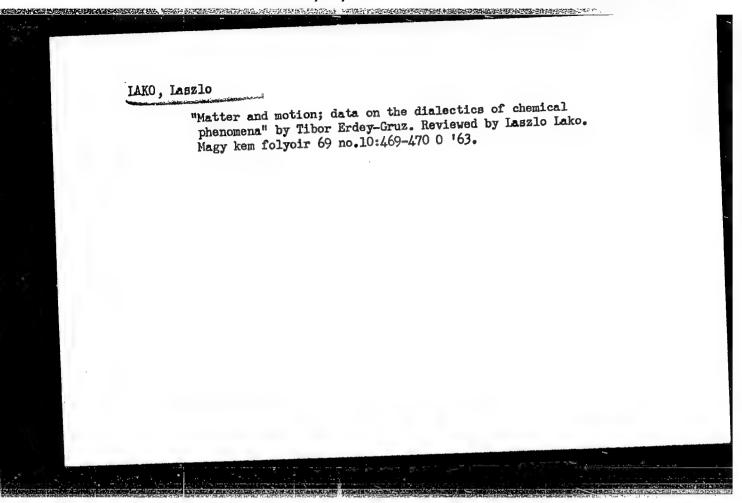
Knowledge of the retting process based on chemical and physicochemical research. p. 457.
Vol 17, no. 3/4, 1955. KOZLEMENYEI. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

IAKHER, L.; GONDZIK, N.

Treatment of mouth and mandibular diseases by chemically preserved amnion. Polski tygod. lek 7 no. 41:1281-1283 13 Oct 1952. (CLML 24:1)

l. Of the Institute of Surgery (Head-Prof. Leon Lakner, M.D.) of the Stomatological Polyclinic of Posnan Medical Academy.



# LAKO, M.

"Technical and economic indicators of steam boilers and the system of constant operation."

p. 15 (Teknika) Vol. 4, no. 5, Sept./Cct. 1957 Tirane, Albania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

LAKO, M.

"Constant corrosion and need of preservation of boilers."
p.9 (Teknika, Vol. 5, no. 1, Jan./Feb. 1958, Tirane, Albania)

Monthly Index of East European Accessions (ERAI) LC, Vol. 7, No. 8, August 1958

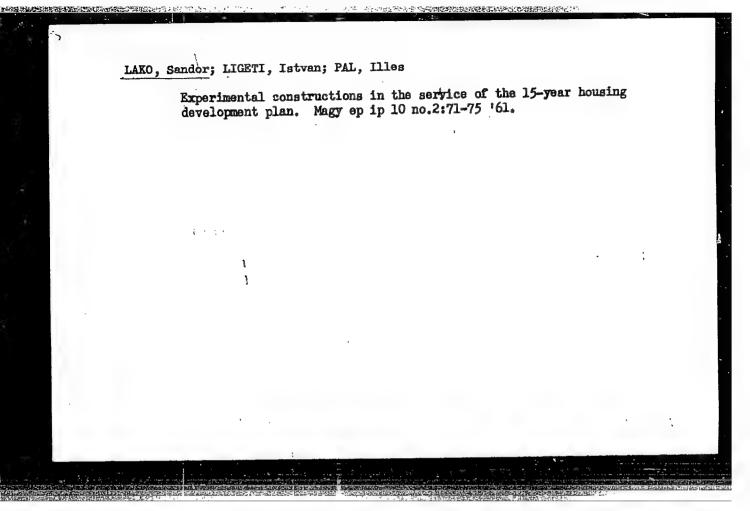
#### LAKO, M.

TECHNOLOGY

PURIODICALS TEKNIK1, VOL. 5, Sept./ Oct. 1958

Lako, M. The use of narhitha products as an economic fuel in the operation of boilers. p. 12.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 5, May 1959, Unclass.



LAKOCY, A.

COUNTRY 1 COLANI CATEGORY : General and Specialized Zoology. Insects. Garmful cosects and Tiern : MinBiol., Po. 21 1958, No. 1000.00 AUTHOR : -aktocy, A. RIST. -TITLE totally of the Angluence of Jeening of Larvae or the Colorado Potato Scotle on Beaves of Billerent Varieties of Potato Sevn at millierent limes on anymiologic state ORIG. PUB. : Accen, sau delniezych, 1977, A74, so. 1, 189-757 thetatoes of the rervesnes, Lenino, Lar, and Micher ARSTRUCT varieties were sew in March, April and June. 109 leaves of potatoes of each type were fed to 200 Larvac! each from the moment or matching until migration of tad becties into the soil. Buria, the period of feeding the larvae, the leaves of the polatoes and the me that everyout from the sail were analyzed for water conjust fat, protein mitrogen, and lipocytic coefficient (M.). -ac variety of points im luences neither the LC arriva water content of the beetles. The lowest LC incides, water content, and body weight were seen in neetles. feeding in the larval state on leaves of votatoes what

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928430008-7"

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CARD:

ABS. JOUR. : RZhBiol., No. 1958, No.

AUTHOR INST. TITLE

ORTG. PUB.

APSTRACT ted in April (when compared with those planted as other times). Take indices camaged when the tarvae were fee on leaves of other pointoes. Consequently, the .C. and the water content in the potato leaves out not influence those some elements in the beetles. Upo cultlvation of goetles for pay coloric and toxicolo ic carboses, are may be sade of heatles regardless of the connector of the larval nutrition. The prester selecting of females in comparison with males is explained by the recreased body water. -- From aut or's suswary. CARD:

2/2

LAKOCY, A.

Conficiely : Poland

Chromen's Cultavated Flants. General Problems.

abs. JOUR: Ref Zhar -B.ologiya, No. 5, 2959, No. 10189

Author : Iskocy, A.

INUT. : --

TIME : Effect of Chlordane and Benzene Hexachloride

Productivity of Cultivated Plants.

ORIG. PUB.: Roczn. nauk rolniczych, 1957, A74, No.2,

460-466

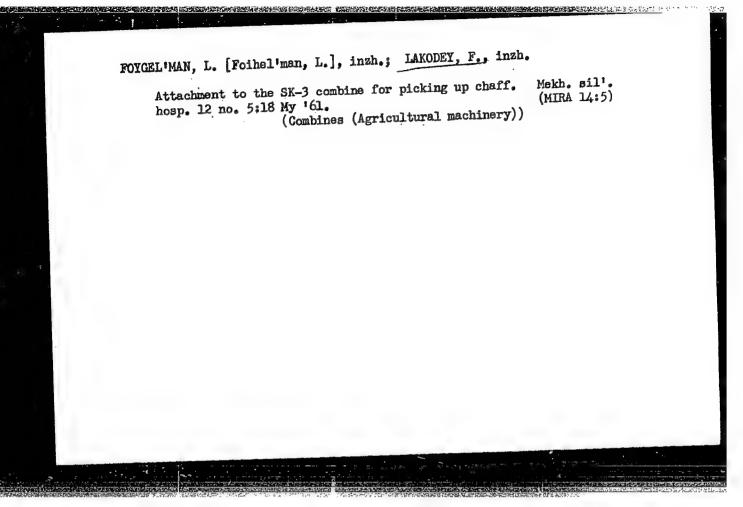
ABSTRACT: Experiments were conducted on the fields of

the department studying Colorado potato beetle control in Poznan. Chlordene in doses of 500, 375, and 250 kg/ha had no effect on the yields of spring rye, lupine, and potatoes. The mean dose alone showed an impresse of yield in cate. BHC in doses of 400, 300, and 200 kg/ha lowered the yield of rye. With doses

of 400 and 200 kg/ha the yield of lupine showed a definite gain. -- Z.I. Zhurbitskiy

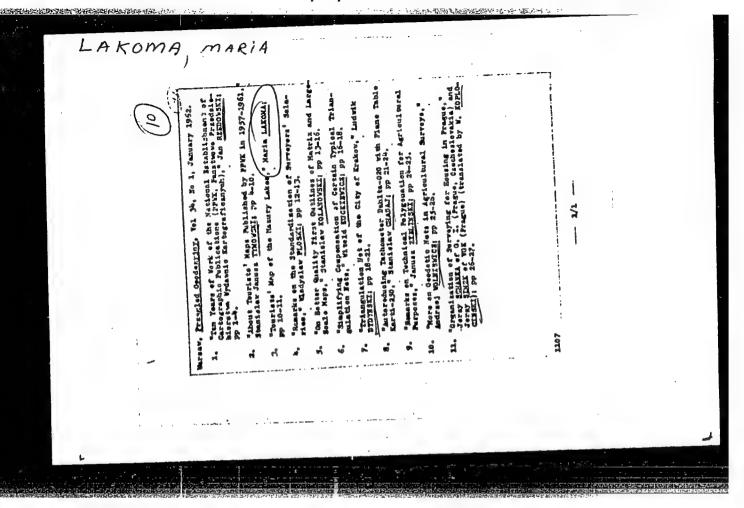
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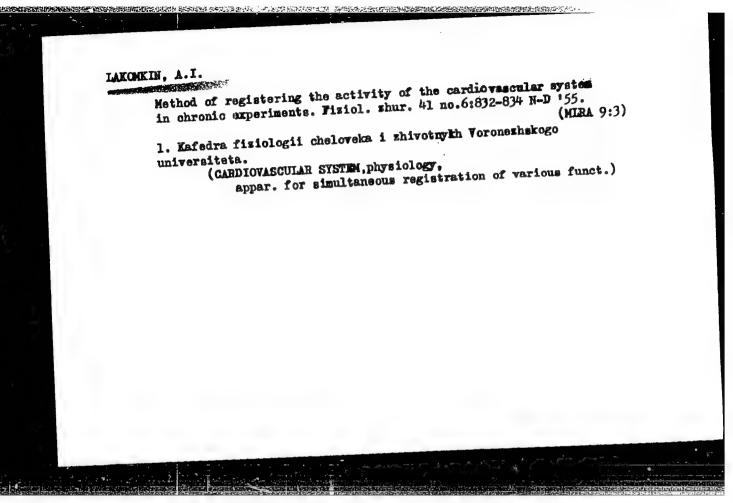
LAKOCY COUNTRY 1 POLICE : General and Specialized Zoology. Insects. CATECORY Harmful Insects and acarids. APS, JOHR. : RZEBiol., No.23, 1953, Na.105282 AUTHUR : Stacherska, B., Lakocy, A., Szozepanska, A. INSI. TITLE : Studies on the Busceptibility of Golorado Potato Beetle to roisons in delation to the Physiological Condition. OPIG. PUB. : Hodgn. nauk rolniczych, 1957, A74, No. 2, 468-569 : Experiments in dusting with "gezarol" (DDT preparation) ARSTRACT and spraying with arsenate of Ca the wintered and summer beetles (E). Unfed S perished completely with the expenditure of "gezarol" at the rate of 40 kg/hs for the wintered and 20 kg/ha for the summer B. After feeding for 2 weeks, the susceptibility of the B to DDT declines, and it is still less in B which are ready for wintering, especially in females that were not laying eggs. Upon spraying with calcium arsenate (4 kg/ha), mortality of wintered B did not exceed 90%, and in B of the summer generation, it reached 94%; mortality declined sharply in the feeding 8 .--Card: D. P. Dovnar-Japol'skiy



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CIA-RDP86-00513R000928430008-7





USSR/Form Animals. Small Hornod Cettle

Q-3

Abs Jour : Rof Zhur - Biol., No 11, 1958, No 30008

: Lekorkin A.I., Lebedev V.V. Author

: Voronosh University, Society for Natural Study

Inst : One Method Investigating the Brinking Reactions in Large Title

Hornod Cattle.

Orig Pub : Byul. O-vo yostostvoi pyt. pri Voroncohsk. un-te, 1956, 10,

103-105

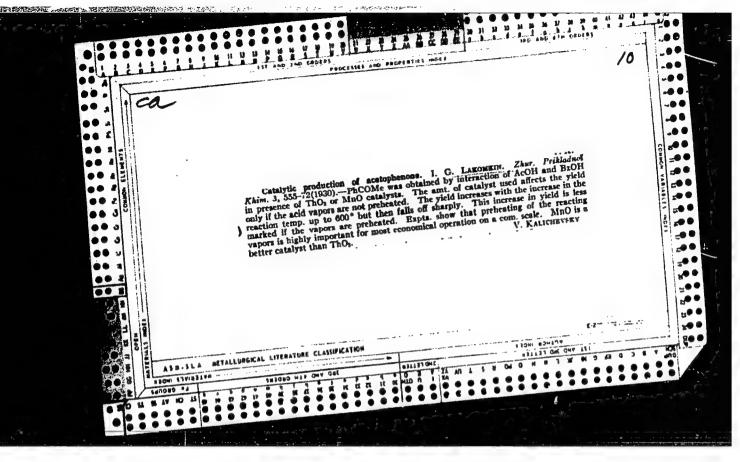
Abstract : An installation is proposed which utilizes an automatic water

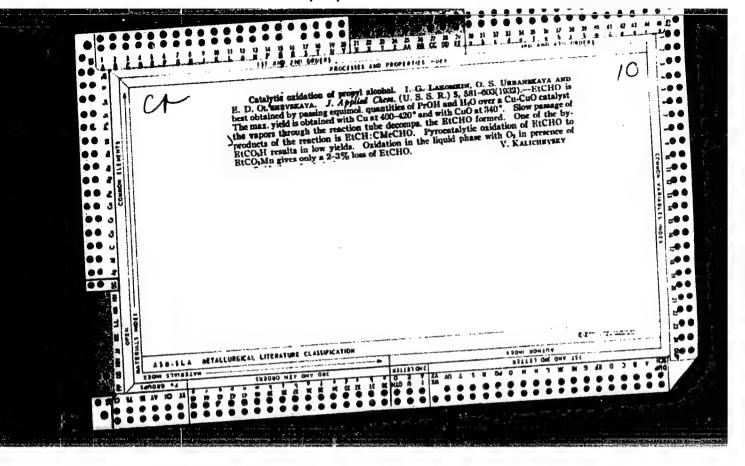
dispenser with several modifications. This installation permits to study the drinking resetion in snimels, to computo the emounts of water which they consume at various feedings and various keeping conditions. Also, it permits to observe speed and characteristics of the participating

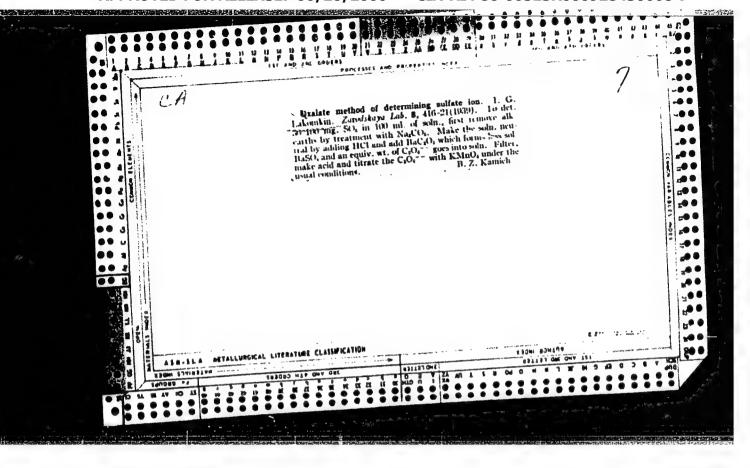
drinking reflex.

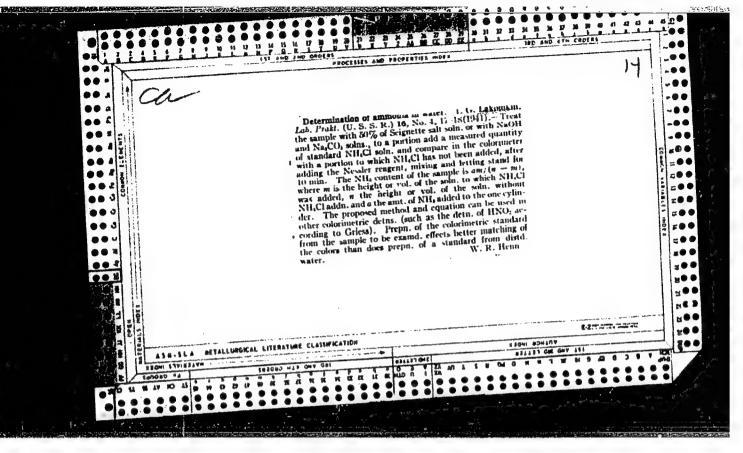
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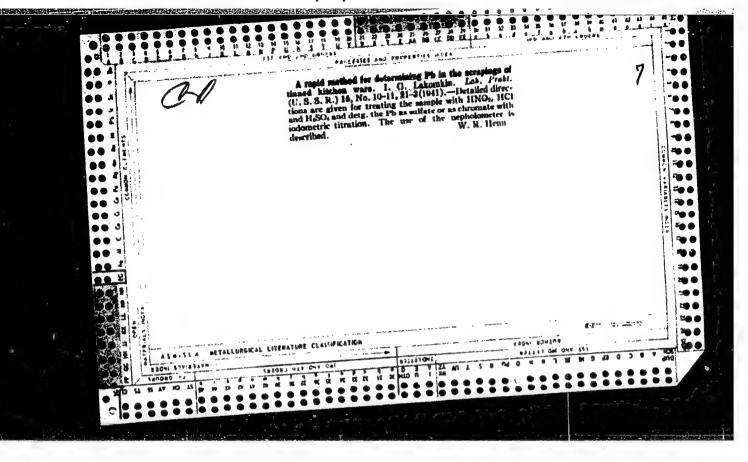
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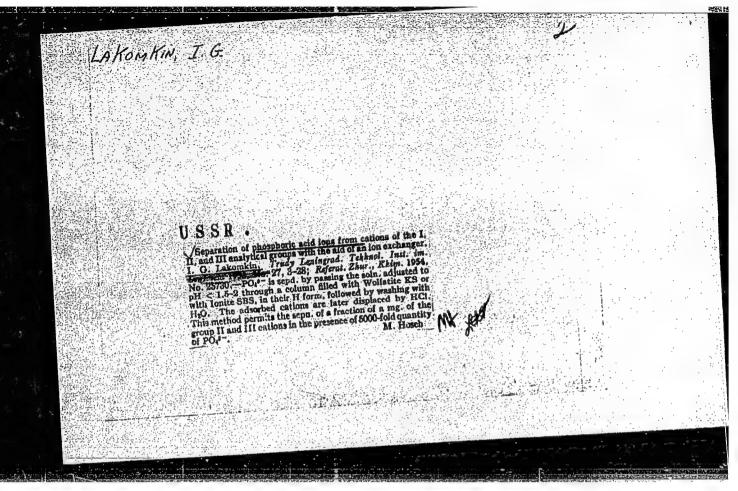


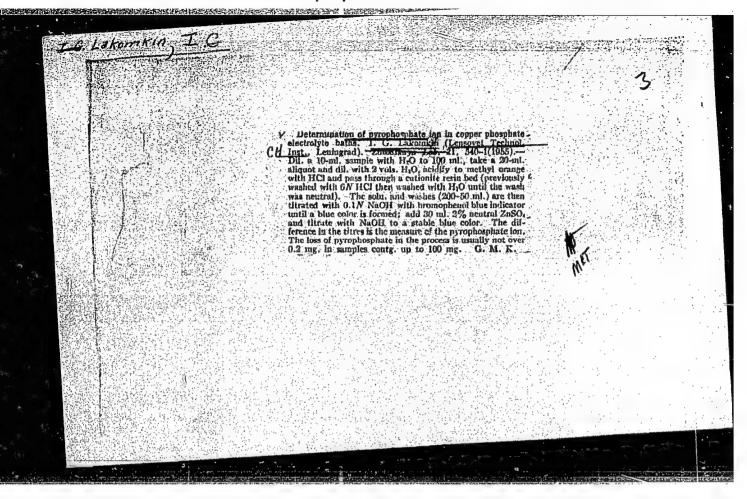


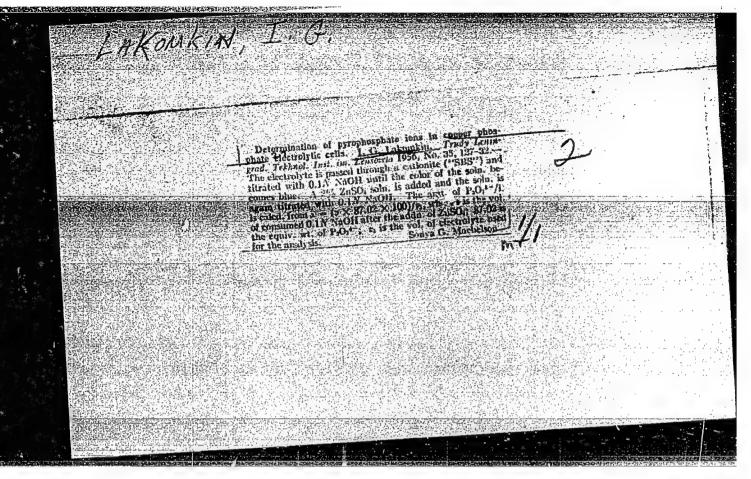


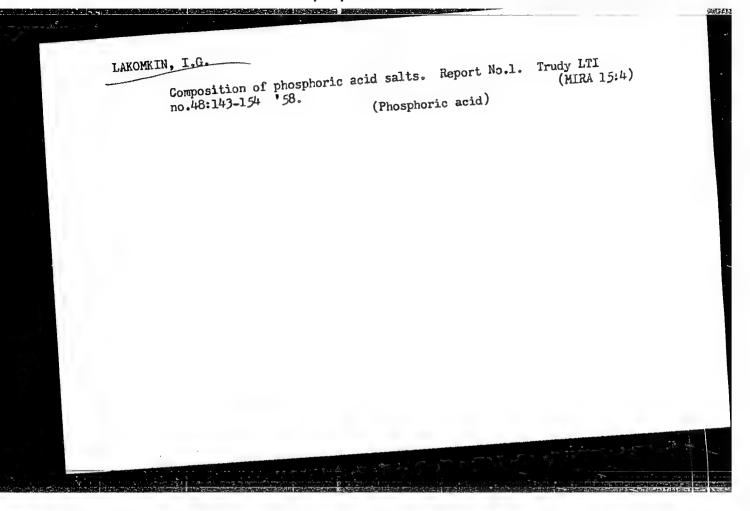


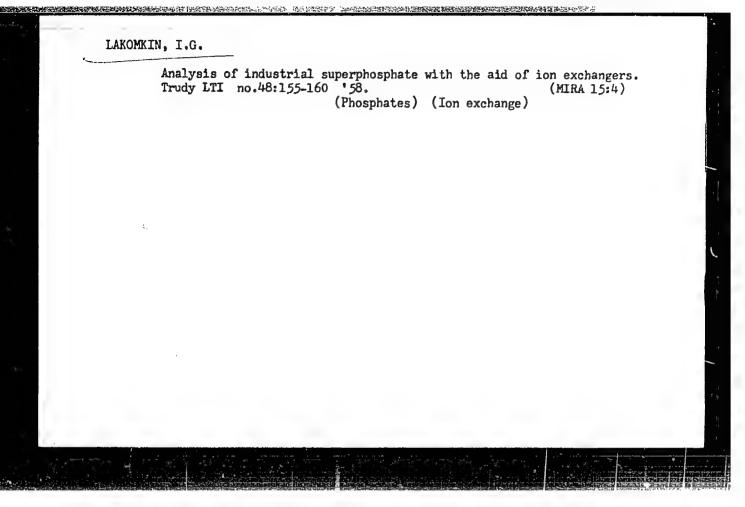












AUTHOR: Lakomkin, I.G. 32-24-6-6/44 TITLE: A Method of Determining Phosphoric Acid in Superphosphates by Means of Ion Exchange (Metod opredeleniya fosfornoy kisloty v superfosfatakh s pomoshch'yu ionoobmennikov) PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pr 679-680 (USSR) ABSTRACT: M.L.Chepelevetskiy, R.Te.Osherovich and S.M.Pevzner (Ref 1) suggested the application of a cationite in hydrogen form for the purpose of extracting phosphoric acid. As this, however, caused difficulties in works laboratories, the present paper describes extraction with sulfuric acid by the method developed by Blyakher (Ref 2); determination itself is carried out with ion-exchange resins. In principle the method consists in the following: The superphosphate is dissolved in 0.05 n sulfuric acid, is allowed to pass through an H-cationite (SBS), is filtered and is titrated with 0.1 n NaOH besides methylorange and phenolphthalein. For the purpose of determining the total amount of phosphoric acid the sample is dissolved in a 10% hydrochloric acid and passed through a cationite; in order to improve titration and Card 1/2 thus also the results obtained, lead nitrate is used. The results

A Method of Determining Phosphoric Acid in Superphosphates by Means of Ion Exchange

32-24-6-6/44

obtained are given in a table and show that the values obtained are lower than those obtained by the gravimetrical method. In order to bring the results obtained into line with those obtained by the gravimetrical method according to GOST it is necessary to use an empirical titer of the lye of phosphoric acid (isolated from the superphosphate), the P205-content of which was gravimetrically determined. The process of analysis is described in detail. There are 2 tables, and 2 references, 2 of

ASSOCIATION:

Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technological Institute imeni Lensovet)

- 1. Phosphates--Analysis 2. Phosphates--Volumetric analysis 3. Phosphoric acids--Determination 4. Ion exchange resins
- 5. Titration--Effectiveness

Card 2/2

LAKOMKIN, I.G.; GOROVOY, G.G.

Composition of salts of phosphoric acid. Part 2: Reaction between Nachto, and manganess salts. Izv.vys.ucheb.zav.; khim. i khim.tekh. 3 no.6:975-979 160. (MIRA 14:4)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra analiticheskoy khimii. (Phosphoric acid) (Manganese salts)

# LAKOMKIN, I.G.; ALEKSEYEVSKAYA, N.V.

Use of phosphates as ion exchangers. Zhur. neorg. khim. 8 no.7:1781-1784 Jl \*63. (MIRA 16:7)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta. (Phosphates) (Ion exchange)

s/120/61/000/006/027/041 33156 E073/E435

Litvin, V.F., Lakomkin, Yu.A.

Double focusing in a wide energy range

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961, 125 The double focusing of particles of a given energy using a homogeneous magnetic field of the sector type can be generalized to apply to the case of the spectrograph. To do this the exit boundary of the homogeneous magnetic field must be given the special form defined by Eq. (1) (Ref.1: V.F. Kitvin, PTE, no.3, 1961. This article presents an approximate solution of this equation using a graphical method and keeping to the notation used If a family of exit boundaries are drawn for a given El (Li = 1, and only those parts of the boundaries to the actual focusing are examined) the position of the boundaries changes according to their distance from the point of entrance of the there is a particular boundary at which the curve changes sign. trajectory into the magnetic field. The greatest part of the optimum boundary can be considered to be X a straight line. Card 1/3

33156 s/120/61/000/006/027/041 E073/E435

Double focusing in a wide ... extends from the smallest energy (corresponding to the actual focusing) up to the maximum energy, corresponding to the actual focusing at the distance permitted by the construction of the The largest deviation of the "optimum" boundary from the straight takes place at the maximum energy of the working range. To improve the quality of focusing in the upper energy range, it is desirable to shim the exit boundary by the addition of iron to the side of the pole piece. A diagram shows a family of exit boundaries providing double focusing in a wide energy range for Similar families were also obtained for a number of values of  $\epsilon_1$  in the range 30°  $\epsilon_1$  in Fig.2, the parameters  $\chi$  and  $\lambda$  are determined directly by approximating The results of the the "optimum" boundary as a function of \$1. calculation are correct for extremely small interpolar gaps. gaps of significant size, the basic inaccuracy in the use of Fig.2 (for the determination of the position of the "optimum" boundary) shows the imperfection of the initial formula of W.G.Cross (Ref.2: Rev. Scient. Instrum. 1951. 22, 717) used to obtain the equation This problem, taking into account the extension to the in Ref.1. Card 2/3

33156

Double focusing in a wide ...

5/120/61/000/006/027/041 E073/E435

marginal region of the magnetic field, has been explored further in Ref.3 (Yu. Kholmovskiy, Atomnaya energi, no.9, 1960, 301). Acknowledgments are expressed to Yu.A.Nemilov for his interest in There are 2 figures and 3 references: 2 Soviet-bloc and 1 non-Woviet-bloc. The reference to an English language publication, Ref.2, is quoted in the text.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet

(Leningrad State University)

SUBMITTED: April 1, 1961

Card 3/3

BARABASH-NIKIFOROV, I.I.; LAKOMKINA, O.A.; PETROVA, G.P.

Prolonged keeping of a desman in a cage for experimental purposes. Zool. zhur. 43 no.10:1572-1575 '64.

(MIRA 17:12)

1. State University of Voronezh.

SOV/180-59-2-31/34

AUTHORS: Lakomskaya, G.V., and Sukhodrovskaya, K.A. (Moscow) TITLE:

Contribution on the Acidity of Mineral Coals (K voprosu o kislotnosti iskopayemykh ugley)

PERIODICAL: Izvestiya akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 2, pp 164-167 (USSR)

ABSTRACT: The authors report their work on the study of the pH of coals. The first stage was the development of the method, which has some similarity in principle to that of Jacob (Ref 4). The results for various grades and deposits of coal showed that the pH value can vary over a wide value and is not characteristic of a grade. pH does not depend on the total ash content, being affected apparently by both the organic and mineral part of the coal. The rate of oxidation of a coal was found to vary with variation in pH and this suggests that the improvement in storage properties obtained by treatment With calcium bicarbonate solution is due to its influence on the pH as well as to its pore-sealing action (Ref 7).

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Contribution of the Acidity of Mineral Coals

The work was carried out under the direction of P.K.Mel'.

There are 2 tables and 7 references, 4 of which are Soviet, 2 German and 1 English.

SUBMITTED: June 28, 1958

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SU	SUKHODROVSKAYA, K.A.; LAKOMSKAYA, G.V.  Significance of coal acidity in determining its content in  Significance of coal acidity in determining its content in				
	determini	determining 1ts content of posterior (MIRA 13:12)			
	160.	(CoalTesting)	(Oxidation)		
- 1,					

FRIDMAN, G. Ye.; SUKHODROVSKAYA, K. A.; LAKCMSKAYA, G. V.;
KARAVAYEV, N. M.

Coal carbonization during heating in the presence of water under pressure. Trudy IGI 17:76-87 '62. (MIRA 15:10)

(Coal—Carbonization) (Water vapor)

MALAWSKI, Stefan; Lakonski, Marian

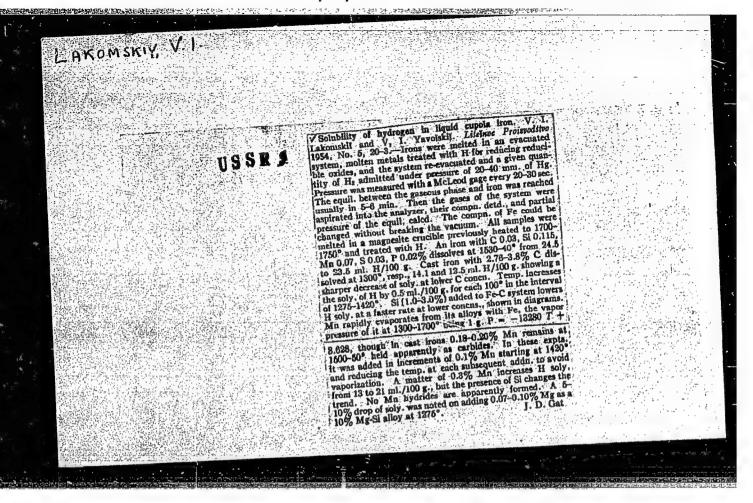
The clinical value of preserved ribs in spine fusion for tuberculosis. Chir. narzai. rumm ortop. Pol. 30 no.1: 97-102 165.

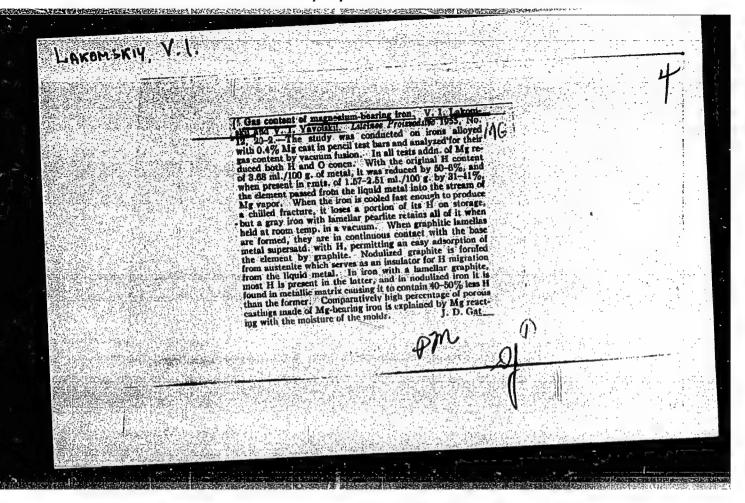
1. Z Oddzialu Gruzliny Kostno-Stawowej dla Doroslyon w Swidrze (Ordynator: dr. med. P. Kubica).

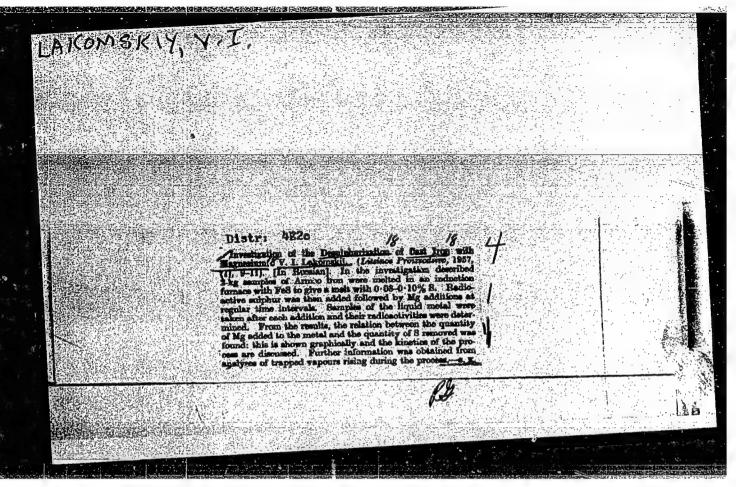
LAKOMSKIY, V.I.

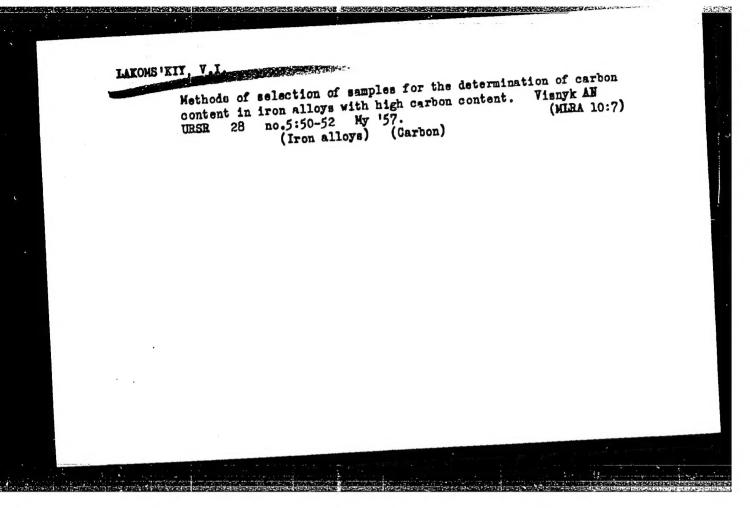
Dissertation: "Study of Hydrogen Solubility in Liquid Cupola Cast Iron and the Behavior of Gases in the Inoculation of Cast Iron." Cand. Tech Sci, Kiev Polytechnic Inst, Kiev, 1954. (Referativnyy Zhurnal, Khimiya, Moscow, No 15, Aug 54)

SO: SUM 393, 28 Feb 1955









Lakomskiy, V.I.

SOV-125-58-2-10/11

AUTHOR:

TITLE

Determination of the Hydrogen Content in Titanium by Vacuum Heating (Opredeleniye soderzhaniya vodoroda v titane metodom vakuumnogo nagreva)

PERIODICAL &

Avtomaticheskaya svarka, 1958, Nr 2, pp 81-91 (USSR)

ABSTRACT:

Information is presented on a new vacuum heating method of determining the hydrogen content in titanium and its weld joints. Such a method can be put into practice in ordinary work laboratories with the use of a nichrome resistance furnace (Figure 3 and 4), made of "3VS" molybdenum glass. The coefficient of hydrogen diffusion and the optimum temperature of the analyses (800 C) are determined. Comparison of results in determining hydrogen by vacuum-heating and vacuum-melting methods, obtained at the Institute of Electric Welding and at VIAM, showed a satisfactory agreement.

There are 10 graphs, 1 diagram, 1 photo, 4 tables and 10 references, 7 of which are Soviet, 2 English and 1 Polish.

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SOV-125-58-2-10/11

Determination of the Hydrogen Content in Titanium by Vasuum Heating

ASSOCIATION:

Institut elektrosvarki imeni Ye.O. Patona, AN USSR (Institute of Electric Welding imeni Ye.O. Paton, AS UkrSSR)

SUBMITTED:

November 28, 1957

1. Hydrogen--Determination 2. Titanium--Chemical analysis

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SOV/125-58-11-3/16

AUTHORS:

Makara, A.M., Lakomskiy, V.I., Zhovnitskiy, I.P.

TITLE:

An Investigation on the Distribution of Hydrogen in Weld Joints of Medium Alloy Steels with Austenite and Ferrite Seams (Issledovaniye raspredeleniya vodoroda v svarnykh soyedineniyakh srednelegirovannykh staley s austenitnym i ferrit-

nym shvami)

PERIODICAL:

Avtomaticheskaya svarka, 1958, Nr 11, pp 16-31 (USSR)

ABSTRACT:

As contradictory opinions exist between data (Ref. 4,5) and the general opinion on hydrogen diffusion in metals, changes of hydrogen content in characteristic points of weld joints near the seam and near the base metal were investigated. Information is presented on methods to determine the hydrogen content in different zones of austenite and ferrite seams. Results of tests are compared with data obtained by computation. It was stated that in medium alloy steels, the hydrogen content increases sharply on the side adjacent to the seam, and in austenitic welds, on the side of the base metal. It is proved that the hydrogen content in zones adjacent to austenitic seams is higher than in zones of ferrite seams. The ob-

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CIA-RDP86-00513R000928430008-7" **APPROVED FOR RELEASE: 06/20/2000**